

INCIDENT ALERT

LOCATION:	COMPANY-WIDE	ALERT STATUS:	Normal
ACTIVITY:	ACCESS & EGRESS & WORKING AT HEIGHT	DATE ISSUED:	11/02/2014 08:18:55
SUB ACTIVITY:	NA	INCIDENT No:	00376

TITLE

Genie Z135/70 Mobile Elevated Work Platform (MEWP)

ACCIDENT / INCIDENT DETAILS

Guidance issued by HSE

An operator was killed when a Genie Z135/70 mobile elevating work platform became unstable and overturned whilst it was working at or very close to its maximum height.

In order to minimise the risks of overturn, the machine safety devices and sensors must be configured as per manufacturer's settings, as prescribed by the manufacturer in their Safety Bulletin 130005 dated 29th July 2013. HSE recommends confirmatory checks of the calibration before platform elevation

Introduction:

The purpose of this safety alert is to advise owners and users of steps to be taken to control risks associated with the Genie Z135/70 Mobile Elevated Work Platform (MEWP) following preliminary findings for a machine overturn. More information may follow in due course.

The emerging findings from the HSE investigations indicate that the operational stability of a Genie Z135/70 MEWP may be compromised by the incorrect measurement of the boom angle sensors.

Background:

In order to prevent the Z135/70 model machine operating outside its stability limits, the onboard control system monitors the elevation of the secondary boom to prevent it from telescoping outwards until its elevation is sufficient, as required by the manufacturer (greater than or equal to 75.5°).

The MEWP's onboard control system relies on the correct setting of the elevation of each boom to maintain the effective operational stability of the machine.

Genie, the manufacturer issued a Safety Notice on 29th July 2013, which required the immediate removal of all Z135/70 MEWP's from service until the listed inspections therein had been performed.

ACCIDENT / INCIDENT IMAGES

LEARNING POINTS / ACTIONS TAKEN

Action required:

The manufacturer's safety notice should be followed. Any machines for which the required calibration checks have not been completed should be removed from service. Following the completion of checks, the machines should continue to be inspected, serviced and maintained as per the manufacturer's requirements.

Work regarding the manufacturer's safety notice should only be carried out in accordance with the recommendations in the machine service manual i.e. on firm level ground, with suitable environmental conditions etc.

Prior to any functional checks being undertaken by an operator using the platform controls, as part of the manufacturer's listed inspections, calibration of the angle sensors should be confirmed from ground level using an inclinometer. The use of test weights might also be appropriate.

See attached additional pdf

Relevant legal provisions:

- Sections 2 & 3 of Health and Safety at Work etc Act 1974
- Regulations 5, 6 & 20 of Provision and Use of Work Equipment Regulations 1998

LEARNING POINTS / ACTIONS IMAGES

Safety Notice

130005
EMEAR

Date: July 29, 2013
Model Affected: Z-135/70
Subject: Secondary Boom Angle Sensor Calibration
Allowable Hours: 60 minutes

Issue:

Genie has become aware of secondary boom angle sensor calibrations performed in the field in which the machine's service manual may not have been followed creating an improperly calibrated machine. **An improperly calibrated machine can lead to machine instability resulting in a machine tip over.**

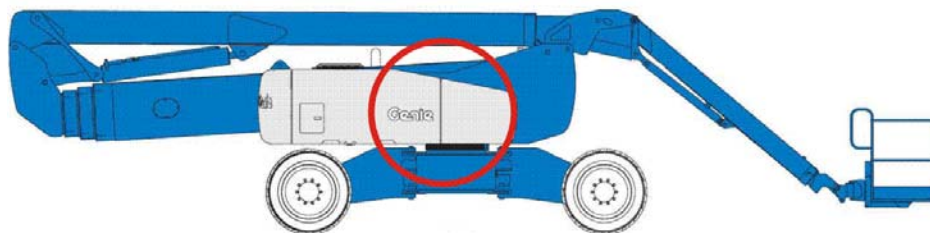
Action Required:

This safety notice requires the immediate removal of all Genie Z-135/70 Boom lifts from service. Machines may only be returned to service after the inspection listed below is performed.

Tool required: Properly calibrated Digital level with magnetic base.

Inspection Procedure:

1. Locate and remove all of the machine models listed above from service.
2. Perform this procedure with the machine on a firm level surface, with the axles extended and the boom in the stowed position.
3. Locate the swing chassis.



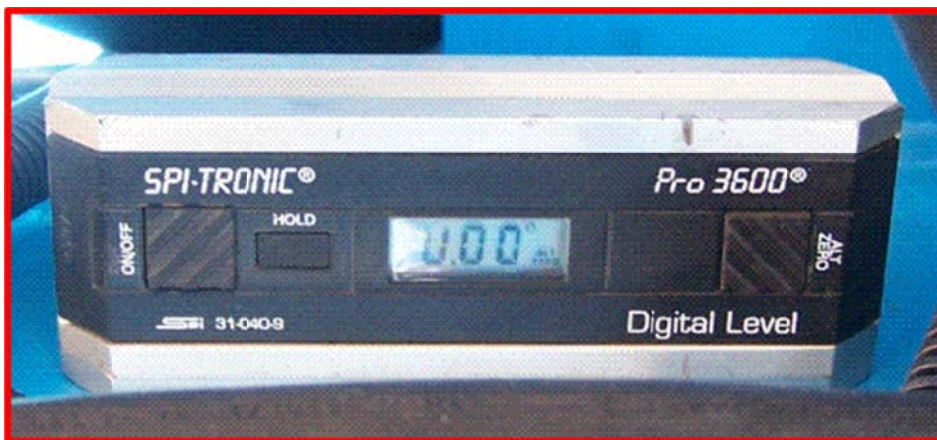
Safety Notice

130005
EMEAR

4. Place the digital level on the swing chassis as shown below.



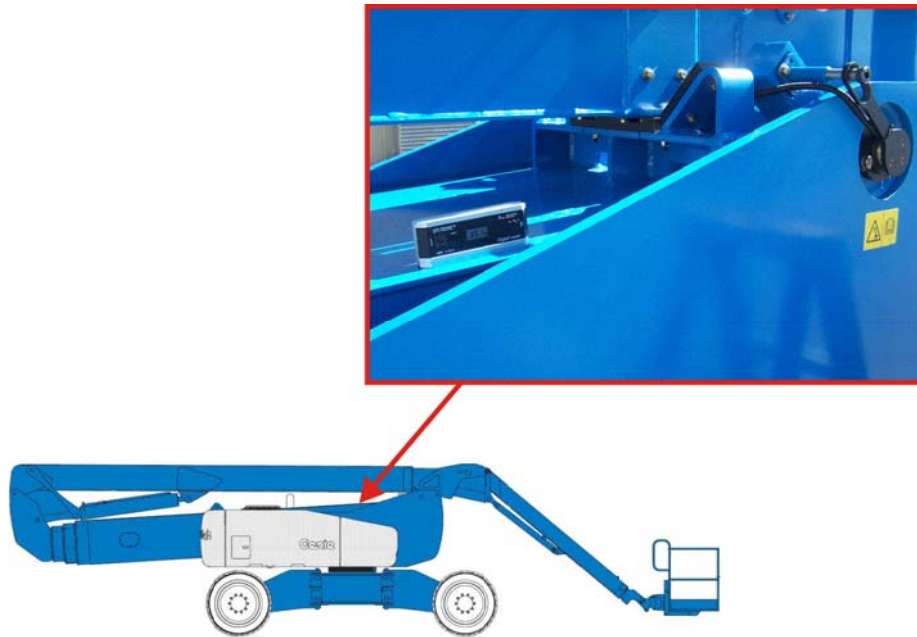
5. Set the digital level read out to zero.



Safety Notice

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EMEAR

6. Working on the same side of the machine, move the digital level from the swing chassis to the top of the secondary boom closest to the pivot end as shown below. Do not change the orientation of the digital level.



7. At the ground controls:
- Start the engine.
 - Fully raise the secondary boom  until any one of the inner boom sections just starts to extend.
 - Stop extending and turn the engine off.

Note: If the digital level times out before the secondary boom is fully raised, repeat the procedure from step 4.

8. Record the value displayed on the digital level in the attached “Completion Form”.
- ⊙ If the value is greater than or equal to ($\geq$) 75.5° , the machine is safe to use and can be returned to service. Finish filling out the “Completion Form” and return to Genie. No further action is required.
 - ⊗ If the value is less than ($<$) 75.5° , the machine must remain out of service. The secondary boom angle sensor will need to be calibrated. Continue on to step 9.



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9. Calibrate the secondary angle sensor of the machine per the instructions in the machine's service manual (section 4-9). Record the desired digital level reading, greater than or equal to ($\geq$) 75.5 °, after calibration in the attached Completion Form.

Note: Do not perform this procedure unless you are trained and qualified to do so. To search for your nearest Terex AWP authorized dealer, click the link below:

<http://www.genielift.com/dealersearch>

10. Return the machine to service.
11. Finish filling out the "Completion Form" and return to Terex AWP Warranty Department. This will serve as verification that you have completed Safety Notice 130005.

Warranty:

The labor and travel distance required to perform this inspection and installation are covered under the provisions of our warranty agreement. Warranty claims can be submitted online, fax or e-mail. Please combine as many machines as possible on one claim form. If you need more information about filing a warranty claim, call Terex AWP warranty department.

If you are the owner of an affected machine and are not an authorized Terex AWP dealer, please contact your nearest Terex AWP dealer for assistance in completing this bulletin. Only Terex AWP Authorized Dealers will be reimbursed for labor or any other costs associated with this bulletin under the provisions of our standard warranty terms and conditions.

Local norms and regulations require that the seller of a Genie machine report to Genie the model and serial number of each machine sold, as well as the name, address, and telephone number of the new owner, within 60 days of the sale.

UK:	00 44 1476 584 333
France:	00 33 237 260 986
Germany:	00 49 422 149 1821
Iberica:	0034 900 808 110
Italy:	0039 075 941 8171
Sweden:	0046 3157 5101
Middle East:	0097 143 391 381 or 0097 150 459 7937
All other locations:	0031 653 221 908

Enclosures:

Machine List Report
New Owner Update Form
Completion Form



Safety Notice 130005

New Owner Update Form

(for updating machine owner information only)

Local norms and regulations require that the seller of a Genie machine report to Genie the model and serial number of each machine sold, as well as the name, address, and telephone number of the new owner, within 60 days of the sale.

- If you have sold a machine, list new owner's name, address and phone number, for each machine. List complete model and serial number.

New Owner Information:

	Machine 1	Machine 2	Machine 3
Model*			
Serial Number *			
Owner Name*			
Address 1*			
Address 2			
City/State/Zip*			
Phone Number*			
Contact Person			

* Required fields

Seller Information:

Date: _____

Company Name: _____

Account #: _____

Address: _____

(street) _____

(city) _____

(state, zip code) _____

Phone #: _____

- List any machines that could not be inspected or repaired because of the following:

Model & Serial Number	Scrapped	Exported	Stolen	Other (explain)
_____	- _____	- _____	- _____	_____
_____	- _____	- _____	- _____	_____
_____	- _____	- _____	- _____	_____
_____	- _____	- _____	- _____	_____

Fax To:	UK:	0044 1476 584 330	Middle East:	0097 143 990 382
	France:	0033 237 260 998	Latin America:	001 425 498 7530
	Germany:	0049 4221 491 820	Central America:	001 425 498 7530
	Iberica:	0034 935 725 080	Carribean:	001 425 498 7530
	Italy:	0039 075 941 8146	Mexico:	001 425 498 7530
	Sweden:	0046 3157 5104	All other locations:	0031 165 510 826

Safety Notice 130005

Completion Form

Your signature on this form will verify that you have performed Safety Notice 130005 and completed the necessary actions before returning the machine to service.

- ⊙ If the digital level reading is greater than or equal to ($\geq$) 75.5 °, the machine is safe to use and can be returned to service.
- ⊗ If the value is less than ($<$) 75.5 °, calibrate the secondary boom angle sensor before returning the machine to service. Refer to section 4-9 of the machine's service manual for the calibration procedure.

List the complete model and serial number (example: Z13505-146 or Z13507-556 or Z13512-1750)

Serial Number	1st digital level read-out	2 nd digital level read out after calibration is performed
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Date: _____
 Company Name: _____
 Account #: _____
 Address: _____
 (street) _____
 (city) _____
 State, zip code _____
 Phone #: _____

Fax To: UK: 0044 1476 584 330 France: 0033 237 260 998 Germany: 0049 4221 491 820 Iberica: 0034 935 725 080 Italy: 0039 075 941 8146 Sweden: 0046 3157 5104	Middle East: 0097 143 990 382 Latin America: 001 425 498 7530 Central America: 001 425 498 7530 Carribean: 001 425 498 7530 Mexico: 001 425 498 7530 All other locations: 0031 165 510 826
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Service Manager (Print Name)

Signature